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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/008,482	11/13/2001	Richard N. Zare	M-11147-IC US	5979		
36257	7590 04/29/2003					
PARSONS HSUE & DE RUNTZ LLP			EXAMINER			
SUITE 1800	OMERY STREET		THERKORN,	ERNEST G		
SAN FRANCI	ISCO, CA 94111		ART UNIT	PAPER NUMBER		
			1723			
			DATE MAILED: 04/29/2003			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)						
Office Action Summary		10/008,482 ZARE							
		Examiner		Art Unit					
		THERKORY		1	723				
	The MAILING DATE of this communication appears	on the cover sheet wit	th the corres	ponde	nce address	s			
Period f	or Reply	2							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.									
	MAILING DATE OF THIS CUIVINIUNICATION. ions of time may be available under the provisions of 37 CFR 1.136 (a). In	no event, however, may a rep	ly be timely filed	after SIX	(6) MONTHS f	from the			
	date of this communication. eriod for reply specified above is less than thirty (30) days, a reply within t	he statutory minimum of thirty	(30) days will be	a consida	red timely				
- If NO p	eriod for reply is specified above, the maximum statutory period will apply	and will expire SIX (6) MONTH	S from the mailir	ng date of	this communic	ation.			
	to reply within the set or extended period for reply will, by statute, cause t ply received by the Office later than three months after the mailing date of				31.				
	patent term adjustment. See 37 CFR 1.704(b).								
Status	Responsive to communication(s) filed on Apr	C.1 10 2003							
201	Responsive to communication(s) filed on This action is FINAL . 2b) This action is FINAL .	tion is non-final				· ·			
3) 🗀	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.								
	tion of Claims								
4)	Claim(s) 1-13		is/are	pendi	ng in the a	application.			
4	ea) Of the above, claim(s) 1-10		is/ar	e with	drawn fror	m consideration.			
5) 🗆	Claim(s)			is/are	allowed.				
6)	Claim(s) 11-13			is/are	rejected.				
7) ∐	Claim(s)			is/are	objected to	o.			
7) □ 8) □	Claim(s)								
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8) 🗆	Claims								
8) 🗆 Applica	Claimstion Papers	are subje	ct to restric	ction a	nd/or elect	ion requirement.			
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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 11-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dulay (Anal. Chem., 70, 1998 pages 5103-5107) in view of Viklund (Chem. Mater. 1997, 9, 463-471). The claims differ from Dulay (Anal. Chem., 70, 1998 pages 5103-5107) in reciting photoinitiated polymerization. Viklund (Chem. Mater. 1997, 9, 463-471) (Abstract) discloses that the advantages of photoinitiated polymerization are ease of preparation, short time needed for reaction, and the possibility of running the reaction at a low temperature. It would have been obvious to use photoinitiated polymerization in Dulay (Anal. Chem., 70, 1998 pages 5103-5107) because Viklund (Chem. Mater. 1997, 9, 463-471) (Abstract) discloses that the advantages of

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photoinitiated polymerization are ease of preparation, short time needed for reaction, and the possibility of running the reaction at a low temperature.

Claims 11-13 are rejected under 35 U.S.C. 102(B) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Soane (U.S. Patent No. 5,135,627). The claims are considered to read on Soane (U.S. Patent No. 5,135,627). However, if a difference exists between the claims and Soane (U.S. Patent No. 5,135,627), it would reside in optimizing the elements of Soane (U.S. Patent No. 5,135,627). It would have been obvious to optimize the elements of Soane (U.S. Patent No. 5,135,627) to enhance separation.

Claims 11-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Soane (U.S. Patent No. 5,135,627) in view of Viklund (Chem. Mater. 1997, 9, 463-471). At best, the claims differ from Soane (U.S. Patent No. 5,135,627) in reciting photoinitiated polymerization. Soane (U.S. Patent No. 5,135,627) itself discloses "UV-induced decomposition initiator" on column 5, lines 10-12. Viklund (Chem. Mater. 1997, 9, 463-471) (Abstract) discloses that the advantages of photoinitiated polymerization are ease of preparation, short time needed for reaction, and the possibility of running the reaction at a low temperature. It would have been obvious to use photoinitiated polymerization in Soane (U.S. Patent No. 5,135,627) because Viklund (Chem. Mater. 1997, 9, 463-471) (Abstract) discloses that the advantages of photoinitiated polymerization are ease of preparation, short time needed for reaction, and the possibility of running the reaction at a low temperature.

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Claims 11-13 are rejected under 35 U.S.C. 102(A) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Yu (Electrophoresis 2000, 21, 120-127 January 18, 2000). The claims are considered to read on Yu (Electrophoresis 2000, 21, 120-127 January 18, 2000). However, if a difference exists between the claims and Yu (Electrophoresis 2000, 21, 120-127 January 18, 2000), it would reside in optimizing the elements of Yu (Electrophoresis 2000, 21, 120-127 January 18, 2000). It would have been obvious to optimize the elements of Yu (Electrophoresis 2000, 21, 120-127 January 18, 2000) to enhance separation.

Claim 12 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over each of Dulay (Anal. Chem., 70, 1998 pages 5103-5107) in view of Viklund (Chem. Mater. 1997, 9, 463-471), Soane (U.S. Patent No. 5,135,627), Soane (U.S. Patent No. 5,135,627) in view of Viklund (Chem. Mater. 1997, 9, 463-471), and Yu (Electrophoresis 2000, 21, 120-127 January 18, 2000) as applied to claims 11-13 above, and further in view of either Najafabadi (U.S. Patent No. 5,938,919) or Bente (U.S. Patent No. 4,293,415). At best, the claims differ from each of Dulay (Anal. Chem., 70, 1998 pages 5103-5107) in view of Viklund (Chem. Mater. 1997, 9, 463-471), Soane (U.S. Patent No. 5,135,627), Soane (U.S. Patent No. 5,135,627) in view of Viklund (Chem. Mater. 1997, 9, 463-471), and Yu (Electrophoresis 2000, 21, 120-127 January 18, 2000) in reciting use of a polyimide coating. Dulay (Anal. Chem., 70, 1998 pages 5103-5107) (in the sentence bridging pages 5104 and 5105), Soane (U.S. Patent No. 5,135,627) (column 2, lines 28-30), and Yu (Electrophoresis 2000, 21, 120-127 January 18, 2000) (in section 2.1) would appear to disclose the recited coating. In any event, Najafabadi (U.S. Patent No. 5,938,919) (column 7,

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lines 29-32) discloses that a polyimide coating aids in the prevention of breaking. Bente (U.S. Patent No. 4,293,415) (Abstract and column 3, line 64) disclose that polyimide coatings protect against abrasion and moisture. It would have been obvious to use a polyimide coating in each of Dulay (Anal. Chem., 70, 1998 pages 5103-5107) in view of Viklund (Chem. Mater. 1997, 9, 463-471), Soane (U.S. Patent No. 5,135,627), Soane (U.S. Patent No. 5,135,627) in view of Viklund (Chem. Mater. 1997, 9, 463-471), and Yu (Electrophoresis 2000, 21, 120-127 January 18, 2000) either because Najafabadi (U.S. Patent No. 5,938,919) (column 7, lines 29-32) discloses that a polyimide coating aids in the prevention of breaking or because Bente (U.S. Patent No. 4,293,415) (Abstract and column 3, line 64) disclose that polyimide coatings protect against abrasion and moisture.

The remarks urge that the election of species should be withdrawn because examining the two inventions would not be a burden on the examiner. However, examining two inventions would require additional searching and consideration of different issues of patentability. This is especially true where U.S. Patent No. 6,136,187 on column 1, lines 43-50 discloses use of a medium of particles and matrix allows for the elimination of a frit. The election of species requirement has been reconsidered, deemed proper, and made final.

Any inquiry concerning this communication should be directed to E. Therkorn at

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telephone number (703) 308-0362.

Ernest G. Therkorn Primary Examiner Art Unit 1723

Carot Gthehow

EGT/12 April 17, 2003